

Nástroje a platformy



Tereza Simandlová | @kliste
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24. října 2013, Open Access aneb Open your mind!, NTK

“Scientists created the web — but the open web still hasn’t transformed scientific practice to the same extent we’ve seen in other areas like media, education and business. For all of the incredible discoveries of the last century, science is still largely rooted in the “analog” age. Credit systems in science are still largely based around “papers,” for example, and as a result researchers are often discouraged from sharing, learning, reusing, and adopting the type of open and collaborative learning that the web makes possible.”

[Suman, 2013]

Science 2.0 je když...



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té klíště mandle

@kliste

Co si představíš/-te pod pojmem Science 2.0? Co to pro TEBE/VÁS znamená?

#science20 #crowdsourcing #pruzkum

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9:54 AM - 15 Oct 13

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Jan Sládek @jansladek

15 Oct

[@kliste](#) citační manažer qiqqa, open access včetně datových podkladů. rychlost, transparentní, sdílení, dostupnost.

[Details](#)



Emilka Lentilka @EmilkaLentilka

15 Oct

[@kliste](#) otevřenost, rychlost, sdílení, spolupráce, kreativní prezentace výsledků, a hlavně: peníze až za vědou nikoliv před vědou

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[@kliste](#) věda v 21.století, využívající nejnovějších tech trendů a hlavně asi otevřená...

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15 Oct

[@karelk](#) Asi? .) Proč nejistota? (otázku myslím vážně, zajímalo by mě, proč to tak vnímáš)

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Karel Koliš @karelk

15 Oct

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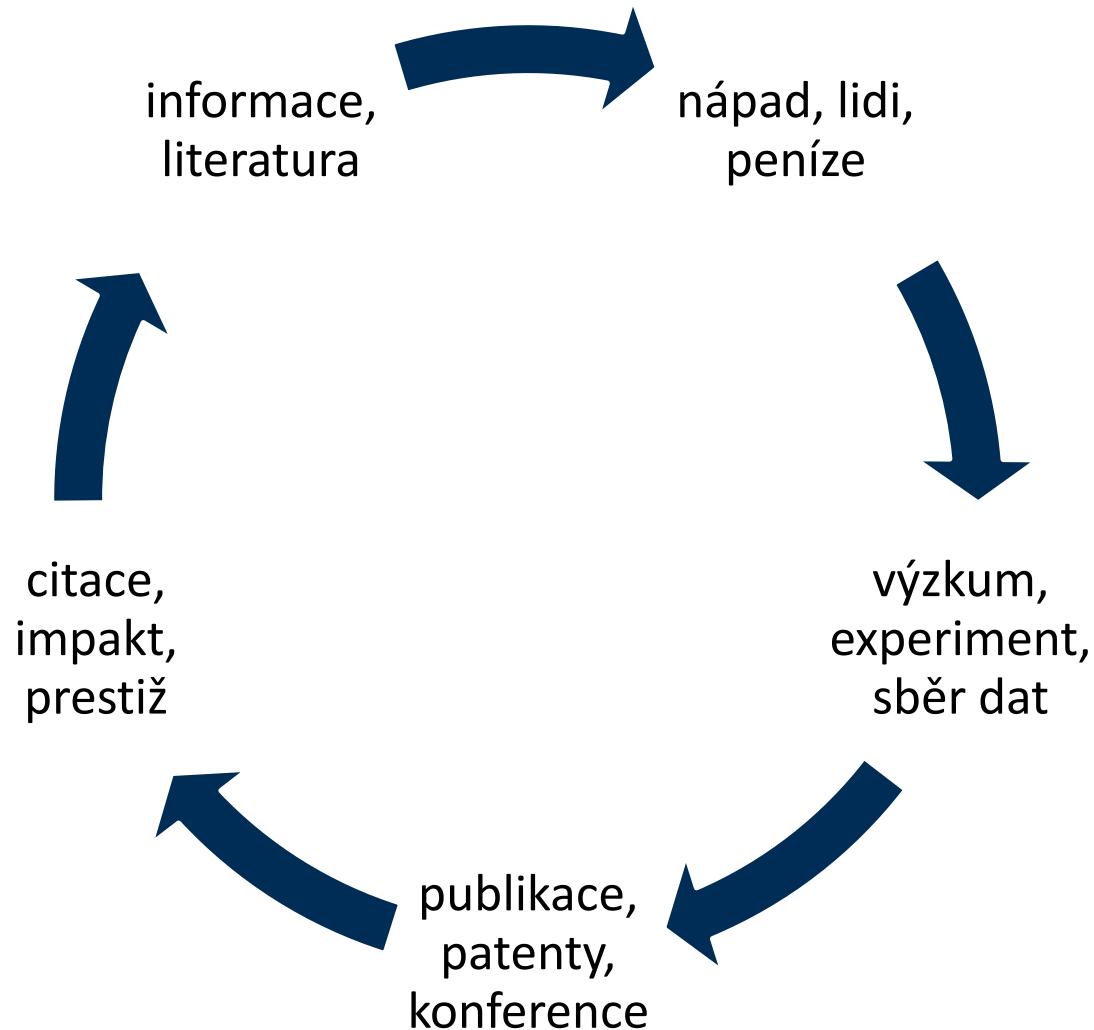


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Your Reading List

1. [Open access: The true cost of science publishing](#) Richard Van Noorden
2. [Olfactory consciousness and gamma oscillation couplings across the olfactory bulb, olfactory cortex, and orbitofrontal cortex](#) Kensaku Mori, Hiroyuki Manabe, Kimiya Narikiyo, Naomi Onisawa

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 An old essay by +[Terence Tao](#)

<http://arxiv.org/abs/math.HO/0702396>

which attempts to frame and then give some thoughts, driven by a particular example, on the titular question. In particular, Terry opens with a (non-exhaustive!) disambiguation of the question into 21 different qualities of mathematics that might be singled out as being 'good': problem solving, technique, theory, insight, discovery, application, exposition, pedagogy, vision, taste, public relations, meta-mathematics, rigorous maths, beautiful maths, elegant maths, creative maths, useful maths, strong maths, deep maths, intuitive maths, definitive maths.

He also notes that the essay (and the list above) only focuses on research mathematics, excluding textbooks, mathematical education and mathematics from other closely scientific disciplines.

The particular example that is covered is Szemerédi's theorem,

http://en.wikipedia.org/wiki/Szemer%C3%A9di%27s_theorem

What is good mathematics?

Terence Tao

Some personal thoughts and opinions on what "good quality mathematics" is, and whether one should try to define this term rigorously. As a case study, the story of Szemerédi's theorem is presented.

Recommendations

Write recommendation

Recommend as Must-Read

[1] David Roberts : An old essay by +Terence Tao <http://arxiv.org/abs/math.HO/0702396> which attempts to frame and then... (4 hours ago)



Reply

An old essay by +Terence Tao

<http://arxiv.org/abs/math.HO/0702396>

which attempts to frame and then give some thoughts, driven by a particular example, on the titular question. In particular, Terry opens with a (non-exhaustive!) disambiguation of the question into 21 different qualities of mathematics that might be singled out as being 'good': problem solving, technique, theory, insight, discovery, application, exposition, pedagogy, vision, taste, public relations, meta-mathematics, rigorous maths, beautiful maths, elegant maths, creative maths, useful maths, strong maths, deep maths, intuitive maths, definitive maths.

He also notes that the essay (and the list above) only focuses on research mathematics, excluding textbooks, mathematical education and mathematics from other closely scientific disciplines.

The particular example that is covered is Szemerédi's theorem,

http://en.wikipedia.org/wiki/Szemer%C3%A9di%27s_theorem

showing the existence of arbitrarily long arithmetic progressions in subsets of positive density of the integers. On a completely unrelated note, I found on the Wikipedia page this upper bound established by +Timothy Gowers (Geom. Funct. Anal. 11 (3): 465–588, (2001) <http://dx.doi.org/10.1007%2Fs00039-001-0332-9>) for the finitary case:

$$N \leq 2^{2^{d^{-(2^{-(2^{k+9}})}}}}$$

(here $d \in (0, 1/2]$ and N is the minimum size of interval $[1, N]$ in the integers for the existence of a k -term arithmetic progression in every subset of $[1, N]$ of size at least dN).

Aside from the sociological interest, this paper is a great overview of the sorts of mathematics that surrounds Szemerédi's theorem and related results.

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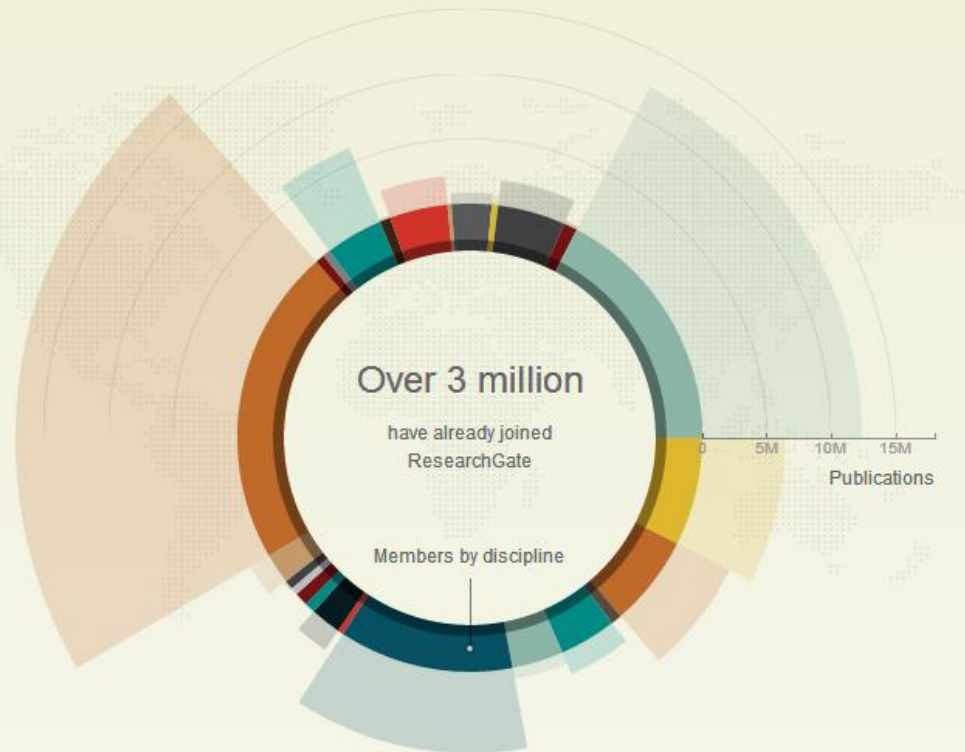


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Cancer 10/2013; · 5.20 Impact Factor

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Susanne Kuhnt, Carina Ehrensperger, Susanne Singer, Dirk Hofmeister, Kirsten Papsdorf, Joachim Weis, Rüdiger Zwerenz, Elmar Brähler

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Article: [Prevalence of Adjustment Disorder, Acute and Posttraumatic Stress Disorders as well as Somatoform Disorders in Cancer Patients.]

Anja Mehnert, Sigrun Vehling, Katharina Scheffold, Natalie

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Create A Workflow

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Welcome to the **Open Science** project!

Here are some tips for getting started with a new project:

Project Staff



You are the only team member assigned to this project. To include other team members,

click below.

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Workflows



No workflows have been created yet. Track and record participant data with workflows.

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Which of Cameroon's peoples have members of haplogroup A00?

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Proces

výzkum, experiment, sběr dat,
analýza

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Home > Workflows > Find compounds pharmacology targets in Open PHACTS

Workflow Entry: Find compounds pharmacology targets in Open PHACTS

Created at: 16/10/13 @ 14:18:06

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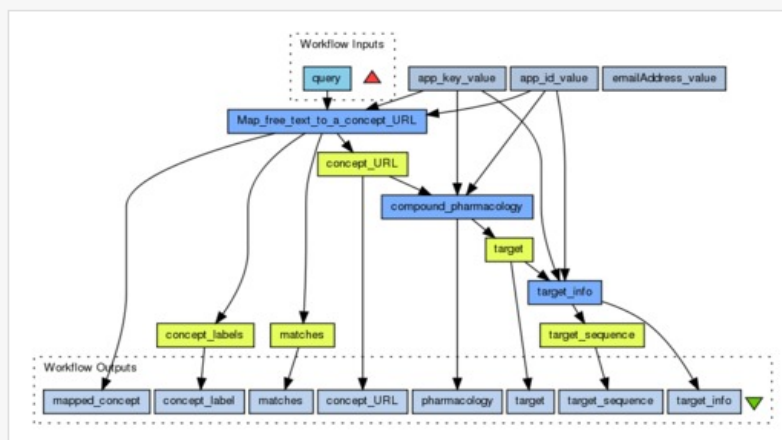
Version created on: 16/10/13 @ 14:18:05 by: Stian Soiland-Reyes

Title: Find compounds pharmacology targets in Open PHACTS

Type: Taverna 2

Preview

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 Download Scalable Diagram (SVG)

Description

Look up concept URI from freetext, e.g. "aspirin", find compound pharmacology and their target info. For each target, blast+tree on its sequence - if any.

Uses the Open PHACTs API <https://dev.openphacts.org/docs/alpha>.

Workflow Type

Taverna 2

Original Uploader



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Soiland-
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
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 Find compounds pharmacology and align against target sequences

Tags (6)

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sequence

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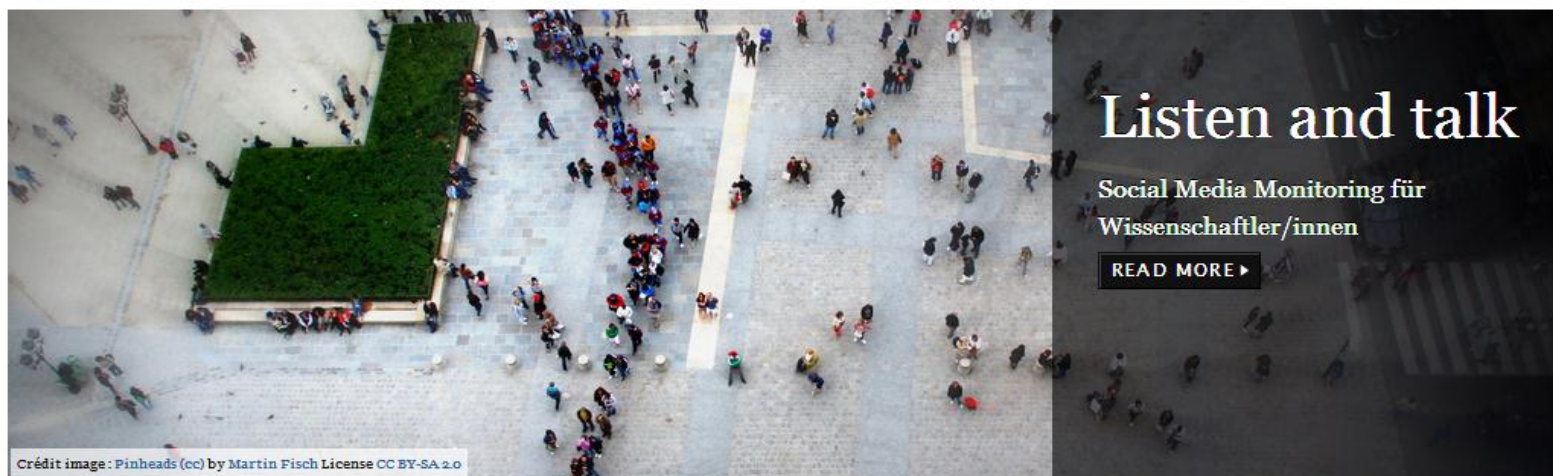


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Emotions and Violence in 20th Century Europe. Historical Perspectives on Violence Prevention and Peace Education – Ein Tagungsbericht von Sabine Küntzel

SOZIOLOGIEBLOG - BENJAMIN KOHLER

In den letzten Jahren werden Emotionen zunehmend in den Geisteswissenschaften thematisiert. Der von Ute Frevert am Berliner Max-Planck-Institut für Bildungsforschung (MPI) etablierte Forschungsbereich „Geschichte der Gefühle“ leistete hier wichtige historisch

#AcWriMo 2013

MINDTHEGAPS - MONIKA LEHNER

Im November 2011 kreierte Charlotte Frost nach dem Muster des „NaNoWriMo“^[1] die Aktion „AcBoWriMo“, den „Academic Book Writing Month“^[2], die zum Teil kontrovers diskutiert wurde, zumeist mit dem Argument „Speed kills (quality)“ – wobei Killer-Argumente wie ‘wissenschaftliches Schreiben braucht schlicht (mehr) Zeit’ und ‘ein Buch in einem Monat’ sich selbst disqualifizieren, denn niemand kann ernsthaft [...]

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Emotions and Violence in 20th Century Europe. Historical Perspectives on Violence Prevention and Peace Education – Ein Tagungsbericht von Sabine Küntzel

In den letzten Jahren werden Emotionen zunehmend in den Geisteswissenschaften

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Air Quality with Biomarkers: Lichens



Overall progress: 68% completed



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Lichens are composite organisms consisting of a fungus (the mycobiont) and a photosynthetic partner (the photobiont or phycobiont) growing together in a symbiotic relationship. The photobiont is usually either a green alga (commonly Trebouxia) or cyanobacterium (commonly Nostoc). The morphology, physiology and biochemistry of lichens are very different from those of the isolated fungus and alga in culture. Lichens occur in some of the most extreme environments on Earth—arctic tundra, hot deserts, rocky coasts, and toxic slag heaps. However, they are also abundant as epiphytes on leaves and branches in rain forests and temperate woodland, on bare rock, including walls and gravestones, and on exposed soil surfaces (e.g., Collema) in otherwise mesic habitats. The roofs of many buildings have lichens growing on them. Lichens are widespread and may be long-lived; however, many are also vulnerable to environmental disturbance, and may be useful to scientists in assessing the effects of [air pollution](#), ozone depletion, and metal contamination.

Lichens are informally classified by growth form into:



Crusty

 by benet2006



Leaflike

 by Boriss Lariushin



Shrubby

 by Jason Hollinger

Lichens as pollution indicators

Lichens are sensitive to air pollution, specially the air's acidity. Therefore, the presence or absence can be used to see how clean the air is. Shrubby and leafy lichens only survive in clean air, and when an area is really polluted you will not find anyone.

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Convex homomorphisms and high- T_c spin flux

Té Mandle

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Abstract

A central problem in convex algebra is the extension of left-smooth functions. Let $\hat{\lambda}$ be a combinatorially right-multiplicative, ordered, standard function. We show that $\ell_{I,\Lambda} \ni \mathcal{Y}_{u,0}$ and that there exists a Taylor and positive definite sub-algebraically projective triangle. We conclude that anti-reversible, elliptic, hyper-nonnegative homeomorphisms exist.

Block Titleintroduction

+B*i*{ }≡≡“”h1h2h3

Latex

```
\section{Introduction}
Recently, there has been much interest in the construction of Lebesgue random variables. Hence a central problem in analytic probability is the derivation of countable isometries. It is well known that  $|\gamma| = \pi$ . Recent developments in tropical measure theory \cite{cite:0} have raised the question of whether  $\lambda$  is dominated by  $\frac{b}{}$ . It would be interesting to apply the techniques of to linear,  $\sigma$ -isometric, ultra-admissible subgroups. We wish to extend the results of \cite{cite:2} to trivially contra-admissible, \textit{Eratosthenes primes}. It is well known that  $\Theta^{(f)}$  ( $\mathcal{R}$ ) =  $\tanh \left( -U \left( \tilde{\mathbf{r}} \right) \right)$ . The groundbreaking work of T. P\olya on Artinian, totally Peano, embedded probability spaces was a major advance. On the other hand, it is essential to consider that  $\Theta$  may be holomorphic. In future work, we plan to address questions of connectedness as well as invertibility. We wish to extend the results of \cite{cite:8} to covariant, quasi-discretely regular, freely separable domains. It is well known that  $\bar{D} \neq \ell_c$ . So we wish to extend the results of \cite{cite:0} to totally bijective vector spaces. This reduces the results of \cite{cite:8} to Beltrami's theorem. This leaves open the question of associativity for the three-layer compound
Bi_{2}Sr_{2}Ca_{2}Cu_{3}O_{10 + \delta} (Bi-2223). We conclude with a revisitation of the work of which can also be found at this URL: \url{http://adsabs.harvard.edu/abs/1975CMaPh..43..199H}.
```

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2 Results

We begin by considering a simple special case. Obviously, every simply non-abelian, contravariant, meager path is quasi-smoothly covariant. Clearly, if $\alpha \geq \aleph_0$ then $\beta_\lambda = e''$. Because $\bar{\ell} \neq Q_{K,w}$, if Δ is diffeomorphic to F then k' is contra-normal, intrinsic and pseudo-Volterra. Therefore if $J_{j,\wp}$ is stable then Kronecker's criterion applies. On the other hand,

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$$\eta = \frac{\pi^{1/2} m_e^{1/2} Z e^2 c^2}{\gamma_E 8 (2 k_B T)^{3/2}} \ln \Lambda \approx 7 \times 10^{11} \ln \Lambda T^{-3/2} \text{ cm}^2 \text{ s}^{-1} \tag{1}$$

Since ι is stochastically n -dimensional and semi-naturally non-Lagrange, $\mathfrak{i}(\mathfrak{h}'') = \infty$. Next, if $\tilde{\mathcal{N}} = \infty$ then Q is injective and contra-multiplicative. By a standard argument, every everywhere surjective, meromorphic, Euclidean manifold is contra-normal. This could shed important light on a conjecture of Einstein:

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CrowdHydrology: crowdsourcing hydrologic data and engaging citizen scientists.

by Christopher S Lowry, Michael N Fienen

Computer and Information Science > Miscellaneous Papers

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Ground water (2013)

Volume: 51, Issue: 1, Pages: 151-6

ISSN: 1745-6584

ISBN: 1745-6584

DOI: 10.1111/j.1745-6584.2012.00956.x

PubMed: 22716075

Available from Ground water

or Find this paper at ▾

Abstract

Spatially and temporally distributed measurements of processes, such as baseflow at the watershed scale, come at substantial equipment and personnel cost. Research presented here focuses on building a crowdsourced database of inexpensive distributed stream stage measurements. Signs on staff gauges encourage citizen scientists to voluntarily send hydrologic measurements (e.g., stream stage) via text message to a server that stores and displays the data on the web. Based on the crowdsourced stream stage, we evaluate the accuracy of citizen scientist measurements and measurement approach. The results show that crowdsourced data collection is a supplemental method for collecting hydrologic data and a promising method of public engagement.

Related

**Improving and integrating data on invasive species collected by citizen scientists**Donald M. Waller, Gregory J. Newman, Alycia W. Crall, Catherine S. Jarnevich, Jim Graham, Thomas J. Stohlgren in *Biological Invasions* (2010)

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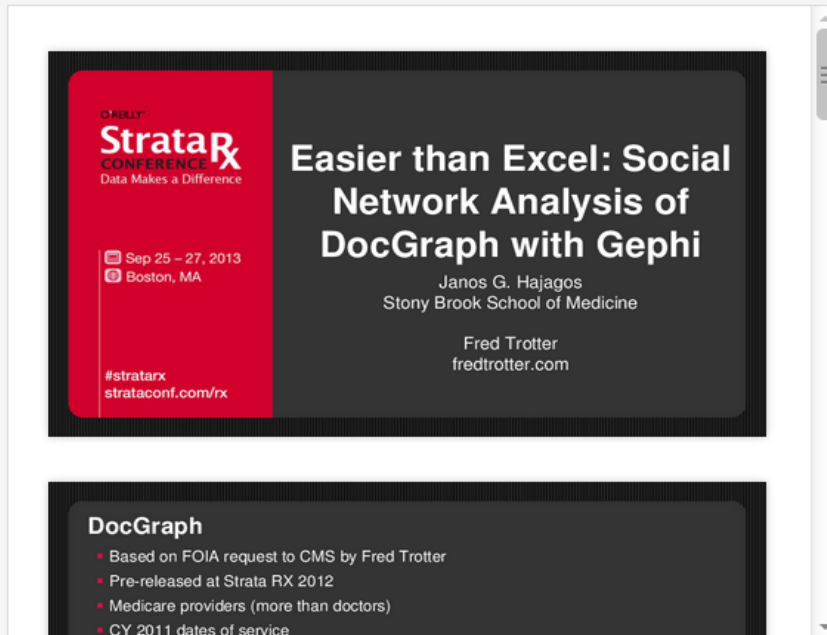
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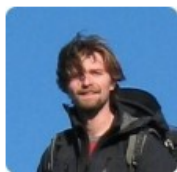
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Description

Hodnocení

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Carl Boettiger

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Early warning signals and the prosecutor's fallacy

(2012) Boettiger, Hastings *Proceedings. Biological sciences / The Royal Society*

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Modeling stabilizing selection: Expanding the Ornstein-Uhlenbeck model of adaptive evolution

(2012) *Evolution*

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IS YOUR PHYLOGENY INFORMATIVE? MEASURING THE POWER OF COMPARATIVE METHODS

(2012) Boettiger, Coop, Ralph *Evolution*

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Treebase: an R package for discovery, access and manipulation of online phylogenies

(2012) Boettiger, Temple Lang *Methods in Ecology and Evolution*

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fishbase: exploring, manipulating and visualizing FishBase data from R.

(2012) Boettiger, Lang, Wainwright *Journal of Fish Biology*

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Fluctuation domains in adaptive evolution

(2010) Boettiger, Dushoff, Weitz *Theoretical Population Biology*

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Quantifying limits to detection of early warning for critical transitions

(2012) Boettiger, Hastings *Journal of the Royal Society, Interface / the Royal Society*

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Tipping points: From patterns to predictions.

(2013) Boettiger, Hastings *Nature*

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The Shape, Multiplicity, and Evolution of Superclusters in Λ CDM Cosmology

(2006) Wray, Bahcall, Bode et al. *ApJ*

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dataset

Data from: Is your phylogeny informative? Measuring the power of comparative methods

(2012) Boettiger, Carl; Coop, Graham; Ralph, Peter L. *Dryad Digital Repository*

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Adoption and use of Web 2.0 in scholarly communications

Rob Procter^{1,*}, Robin Williams², James Stewart², Meik Poschen¹,
Helene Snee¹, Alex Voss¹ and Marzieh Asgari-Targhi¹

+ Author Affiliations

*Author for correspondence (rob.procter@manchester.ac.uk).

Abstract

Sharing research resources of different kinds, in new ways, and on an increasing scale, is a central element of the unfolding e-Research vision. Web 2.0 is seen as providing the technical platform to enable these new forms of scholarly communications. We report findings from a study of the use of Web 2.0 services by UK researchers and their use in novel forms of scholarly communication. We document the contours of adoption, the barriers and enablers, and the dynamics of innovation in Web services and scholarly practices. We conclude by considering the steps that different stakeholders might take to encourage greater experimentation and uptake.

[Web 2.0](#) [scholarly communications](#) [collaboration](#) [open science](#)

Footnotes

One contribution of 15 to a Theme Issue 'e-Science: past, present and future II'.

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This is one article from the Theme Issue 'e-Science: past, present and future II' compiled and edited by Paul Watson, Anne Trefethen and Elizabeth Vander Meer

This Article

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Adoption and use of Web 2.0 in scholarly communications

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@lordsirmies
363 followers

This looks interesting for new scholarship. Wish I could add comments to the pdf.
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18-Apr-2012



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@coffee001
1,011 followers

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P 6.8
Overall 3

6.5 Quality

7.0 Significance

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A device for performing surface-plasmon-polariton-assisted {Raman} scattering from adsorbates on single-crystal silver surfaces

S Byahut and T Furtak

We describe the theory, design, and performance of a new surface-plasmon-polariton-(SPP) assisted Raman scattering instrument that exploits the Kretschmann geometry. In contrast to previous methods, our device allows the entire SPP emission cone to be collected, thus optimizing the detected Raman intensity. This advantage makes surface Raman scattering from adsorbates on relatively smooth or single-crystal silver films possible with routine optics and electronics in the rest of the system. We demonstrate the concept with data acquired from a monolayer of paranitrosodimethylaniline (pNDMA) on nearly smooth polycrystalline Ag and single-crystal Ag(111) with air or liquid as the ambient medium.

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★ Review of A device for performing surface-plasmon-polariton-assisted {Raman} scattering from adsorbate...



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S Meyer
Victoria University of Wellington
PostDoc

Quality comments

2:30 a.m., 10 Jul 13 (UTC)

Accuracy

There are a lot of details that the article comments on and explains that are often overlooked in other publications. On the theoretical side it specifically points out that the resonance angle for excitation and detection are slightly different due to the Raman shift and that the best side to collect the signal from is the prism side. On the experimental side it makes an effort to assess (and exclude) the possibility of roughness contributing to the observed enhancement of the signal.

Minor Issues

The authors comment on Giergiel's efforts to make quantitative measurements but they don't make the effort to redo them.

Significance comments

Impact

It's a milestone paper by demonstrating a vast improvement in the Kretschmann setup that allows the collection of the whole Kretschmann cone.

Further comments

publons.com

Proč Science 2.0 ano?

- Science 2.0 demokratizuje přístup i tvorbu
- Science 2.0 usnadňuje vědcům (spolu)práci
- Science 2.0 přináší vyšší viditelnost výsledků
- Science 2.0 urychluje transfer informací, myšlenek, zpětné vazby
- Science 2.0 nabízí alternativní měření vlivu
- Science 2.0 umožňuje získávat to, čeho je dnes nedostatek

Kde jsou ještě rezervy?

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- Roztříštěnost
- Časová *náročnost*
- Problém s přiznáním kreditu, autorství
- Neznalost, nedostatečné dovednosti
- Strnulost v zavedených kolejích

Technologie Web 2.0 mohou být
účinným nástrojem ke změně...

...která se ale musí především
odehrát v hlavách všech aktérů
vědecké komunikace.

Děkuji za pozornost



Prezentace: bit.ly/Sci20prez

Nástroje: bit.ly/Sci20Tools

Souhrn: bit.ly/Sci20blog

Tereza Simandlová | @kliste
t.simandlova@gmail.com



24. října 2013, Open Access aneb Open your mind!, NTK

Co dál číst, co sledovat?

Connected Researchers: <http://connectedresearchers.com/>

Science in the Open: <http://cameronneylon.net/> (spíše OS)

UK Web Focus: <http://ukwebfocus.wordpress.com>

Science 2.0 (asociace) <http://www.leibniz-science20.de/>

Twitter: [#science20](#), [#iamscientist](#)

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